MAT151 College Algebra
Fall 2024 Syllabus

Section	Format	Class Days and Times	Start Date	End Date	Credit Hours
12510	In Person CM 461	Monday and Wednesday 9:00 AM – 10:55 AM	9/4/2024	12/13/2024	4

Professor: Tina Drucker
Email: tina.drucker@scottsdalecc.edu

Information contained in this syllabus is subject to change at any time during the semester by the instructor. Any changes will be announced through the email you use to create your MOER account.
NOTE: Canvas will not be used for this class.

MAT155 – MCCCD OFFICIAL COURSE DESCRIPTION AND COMPETENCIES

Description: Analysis and interpretation of the behavior and nature of functions including linear, quadratic, higher-order polynomials, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, using multiple methods including matrices, and modeling and solving real world problems.

Prerequisites: A grade of C or better in MAT095, or MAT096, or MAT114, or MAT115, or MAT12+, OR an appropriate district placement for MAT15+, OR permission of Department or Division Chair.

MCCCD Official Course Competencies

1. Define, distinguish, and interpret the relations and functions and their inverses represented verbally, graphically, numerically, or algebraically.

2. Calculate and interpret the average rate of change in varied contexts, using function notation including the difference quotient.

3. Evaluate functions, including composition, and solve function equations and inequalities using multiple methods.

4. Set up, solve, and interpret the meaning of solutions of systems of linear equations using multiple methods, including matrices where appropriate.

5. Identify, graph, analyze, and determine the key characteristics of the following function types and their transformations: linear, quadratic, higher-order polynomial, power, radical, rational, exponential, logarithmic, absolute value, and piecewise-defined.

6. Model real world situations using a variety of mathematical techniques (including regression) and solve real world mathematical problems using functions.

Required Items

MOER Account
- MOER is a *free* online assessment tool that we will use for all online work and assignments for this class.   URL for MOER: https://moer.maricopa.edu
  Course ID: 19357   Enrollment Key: 12510

TI-83 or TI-84 Graphing Calculator
- A TI-83 or TI-84 graphing calculator is **required** for this class.
- If you choose not to purchase a calculator, you can rent one for $10 per semester from the Media Center in IT. There are a limited number of calculators available.
- Calculators with Computer Algebra System (CAS) features (such as TI-Inspire, TI-89, TI-92, HP-48, HP-48G, Casio 9970) **may not** be used for this class.

Other Required Materials
- Pencils, erasers
- Notebook paper or graph paper

Technical Requirements
Students are responsible for meeting these technical requirements in order to begin this class:
- An email address that you check regularly (use this when you set up your MOER account)
- Reliable, high-speed Internet connection

Course Textbook and Workbook (OPTIONAL)

Textbook: College Algebra, Scottsdale Community College Edition (ISBN: 978-1-63434-847-8),
- OPTION 1: Download for free from MOER (**We will not be using this textbook**)
- OPTION 2: Purchase a printed copy from the SCC Bookstore (around $38)

College Algebra Student Workbook, 2nd edition, (ISBN: 9781634349604)
- OPTION 1: Download for free from the MOER site (**We will not be using this workbook**)
- OPTION 2: Purchase a printed copy from the SCC Bookstore (around $14)

Course Technologies

View the Accessibility Statements & Privacy Policies of technologies used in this course.

Maricopa Systems

This course uses key Maricopa systems for course management and communication.
- Student Maricopa Gmail Account
- Maricopa Open Educational Resource Learning System (MOER)

Streaming Media/Audio/Video Tools

This course delivers video lectures through YouTube.

Computer Access and Email

- You will need regular access to a computer (with Internet access) in order to complete the online assignments that are part of this course.

- You are responsible for completing all assignments on time regardless of any computer or internet issues that may occur.

- You will need a working email address that you CHECK REGULARLY. I do send regular class announcements and information via the email you use to create your MOER account. It is your responsibility to provide a valid email address that you keep up with so that you can receive notifications of class announcements.

- **Response Time:** Students can expect a response time of 24 hours for the instructor to respond to messages sent through MOER. I may be unavailable some weekends and during holidays.

SCC RESOURCES RELATED TO THIS CLASS

SCC Math Center: In-Person and remote tutoring is available for free through the SCC Math Center. Instructions and hours are on the SCC Math Center website.

Academic & Student Support Services: A variety of student services can be accessed online. Services are free of charge to all registered SCC students. Refer to the SCC College Resources Home Page.

Accommodations: Scottsdale Community College provides equal opportunity to qualified students. If you have a documented disability (medical, physical, learning, psychological, etc.) and wish to request disability-related accommodations to complete course requirements, contact Disability Resources & Services (480-423-6517). Course requirements cannot be waived, but reasonable accommodations may be provided based on disability documentation and course objectives.

Course Structure

VIDEO ASSIGNMENT (**OPTIONAL for In-Person class**)

- Online Video Assignments serve as an introduction to the topic and a resource for how you should aspire to express your mathematical work.

- If you are unable to attend a class meeting, the Video Assignment in MOER will serve as your introduction to the day's topics. Most examples in the videos are identical to those in the Student Workbook, consider using the workbook to record notes from the videos.

- **Any points you earn from exercises embedded in the Video Assignment will not count towards your course grade.**

IN CLASS ACTIVITIES

- **REQUIRED: Turn all cell phones and other electronic devices OFF before the start of class.**

- You are expected to be on time and prepared for class, be an active participant in activities and class discussions and stay the full length of the class period. Otherwise, you will be marked absent. Being prepared means having the proper materials with you when class begins (graphing calculator, pencil, paper) as well as all assignments completed.

- In class, we will discuss topics from the day's lesson and work on activities individually or in small groups.

ONLINE HOMEWORK

- You have three tries for each problem. After the third attempt, you can generate a new problem for full credit.

- WRITE DOWN your work as you go through the Online Homework, and make notes to yourself on difficult problems. You are creating a resource for yourself that will help as you prepare for exams. The more thorough your notes are, the more helpful they will be to you!

- Do not wait until the last minute to start the Online Homework! If you have questions, go to the SCC Math Center or ask me a question **before** the due date.

- You may use one Late Pass for each Online Homework assignment. A Late Pass will extend the due date by 24 hours. Any late passes granted more than 24-hours past the due date will result in a 20% penalty on exercises completed using the late pass.

ONLINE QUIZ

- Online quizzes are timed. You will have 30 minutes to complete each online quiz. Problems not completed within the time limit will receive a score of zero.

- You will have only two attempts for each problem in the online quiz, so be sure to enter your answers carefully! The second attempt (if you need it) will earn you a MAXIMUM of 70% for that question.

- You may use your calculator and notes on online quizzes, but no other assistance is permitted.

- Online Quizzes are due on (or before) the dates indicated on the Course Calendar. These due dates will not be extended and there are **no "Late Passes"** if you miss the due date. Give yourself plenty of time to complete assignments and get help as needed before the due date. Do not wait until the last minute!!!

- Students who miss three or more online quiz due dates may be withdrawn from the class.

Proctored Exams

- Two Exams will be given in class. See MOER calendar for tentative exam dates.

    o **Midterm:** Chapters 3, 4, 5.0 - 5.1C

    o **FINAL EXAM:** Cummulative

- **You may use your graphing calculator on these exams and an 8.5x11 inch cheat sheet filled both sides (as needed) in your own writing**. Calculators with Computer Algebra System (CAS) features will not be allowed during any exam. You <u>may not</u> use notes or your cellphone while taking exams. If you are wearing a ''smart'' watch, you will be asked to remove it before taking an exam. Any violation of these policies during the exam will result in an automatic grade of zero for the exam and you may be withdrawn from the class.

- Exam dates will be announced in class, and posted on MOER. If you're going out of town, contact me **at least one week before** the exam is given to arrange to take the exam early. In the event of an emergency, contact me **before** the exam is given to arrange for a makeup. **Make-up exams are considered only in special circumstances at the instructor's discretion and may require supporting documents.** If your instructor agrees to a makeup exam, it must be completed before the next class meeting and may be assessed a 20% penalty. Failure to adhere to this policy may result in a grade of zero for the missed exam. No makeups are permitted for the final exam.

Grading

Assignments	Percentage of Course Grade
Orientation Assignments, In-Class Activities Online Homework & Reviews	25%
Online Quizzes	10%
Midterm	30%
Final Exam	35%

Grading Criteria	
90% - 100%	A
80% - 89.99%	B
70% - 79.99%	C
60% - 69.99%	D (not passing)
0% - 59.99%	F (not passing)

NOTE: All written work in this course must be of collegiate quality: organized, legible, and with all possible work shown. Otherwise it will not be accepted (Please use pencil!)

Final grades are calculated using the scale listed on page 5 of the syllabus. FINAL GRADES ARE NON-NEGOTIABLE. It is unethical to reach out any time during the semester and request "a few extra points" or discuss the consequences of not earning the grade you want in the class. Messages of this nature will not receive a response.

I do not give incompletes except under extraordinary circumstances. If a student is passing at the time of the final and is unable to take the exam due to an emergency, an incomplete may be considered if the student can provide appropriate documentation.

Attendance and Absences

- You are expected to be on time and prepared for class sessions, be an active participant in group-work and class discussions, and stay the full length of the class period. Otherwise, you will be marked absent. Being prepared means having the proper materials with you when class begins (graphing calculator, pencil, paper) as well as all assignments completed.

- I will not spend class time going over material you have missed due to tardiness or absence. Deadlines will not be extended due to tardiness or absence.

- If you acquire more than two absences, you may be withdrawn from the course. It is important that you keep in contact with me and keep up with the online assignments.

Class Policies

The following are policies specific to this course. Students are also responsible for the college policies included on the Student Regulations page of the Maricopa Community College District website.

General Conduct
- Incivility and disruptions will not be tolerated. When interacting with your instructor and classmates make sure you are considerate of boundaries and the classroom community.
- Students are expected to conduct themselves in a responsible, mature, and academically honest manner. Be honest in everything you do. Do not present someone else's work as your own.
- Any student caught cheating on an assignment/exam will receive a grade of zero for that assignment/exam and will be subject to disciplinary action in accordance with SCC policies. This may include withdrawal from the class.

Expectations for Time Spent Outside of Class
This is a four credit-hour course that meets for 14 weeks. Based on the federal credit hour definition, students should plan to spend a minimum of 13 hours on course content weekly.

Withdrawal Policies
- Students can withdraw from this class at any time prior to the Final Exam. If you find that you need to withdraw from the course, check the College Catalog for important refund deadlines.

- This is not a self-paced class. You have assignments and due dates and must make regular and consistent progress on course work and assignments. Students that stop participating and fail to respond to instructor MOER communication will be withdrawn from the class.

- Students who fail to attend the first day of class, and/or enroll in MOER, and/or complete the Orientation Quiz and Prerequisite Review in MOER by the due date will be withdrawn from the course.

- Students who fall at least 2 lessons behind (or do not complete any online work over the course of 7 consecutive days) may be withdrawn from the course.

- Students who miss more than 2 class sessions may be withdrawn from the class.

- Cheating on any assignment or exam may result in withdrawal from the course.

- Students who do not make arrangements in advance as described on page 5 of the syllabus (see 'Proctored Exams') and do not take an exam at the scheduled time may earn a withdrawal from the course.

All enrolled students at the time of the Final Exam will receive a letter grade (A, B, C, D, F) for the class. If circumstances are such that you cannot complete the semester, it is your responsibility to withdraw from the class.

Students are responsible for the information contained in this syllabus, the College Policies page found in the First Steps module of your Canvas course, and the General Catalog & Student Handbook.

MAT151 Fall 2024 Discussion Plans **(subject to change)**

Monday		Wednesday	
Sep 2: **Labor Day Holiday**		**Sep 4**: Course Orientation Lesson 3.1	
Sep 9: Lesson 3.2		**Sep 11**: Lesson 3.3	
Sep 16: Lesson 3.4		**Sep 18**: Lesson 3.5	
Sep 23: Lessons 3.5/3.6		**Sep 25**: Lesson 3.7	
Sep 30: Chapter 4		**Oct 2**: Lesson 5.1A	
Oct 7: Lesson 5.1B		**Oct 9**: Lesson 5.1C	
Oct 14: **MIDTERM EXAM**		**Oct 16**: Lesson 5.2	
Oct 21: Lesson 5.3		**Oct 23**: Lessons 5.3/5.6A	
Oct 28: Lessons 5.6A/5.6B		**Oct 30**: 5.6A-B Activity Lesson 5.6C	
Nov 4: Lesson 5.6C		**Nov 6**: Lesson 5.7	
Nov 11: **Veterans Day Holiday**		**Nov 13**: Lesson 6.1	
Nov 18: Lesson 6.2		**Nov 20**: Lessons 6.3/6.4	
Nov 25: Lessons 6.4/6.5		**Nov 27**: Lesson 6.6	
Dec 2: Lesson 6.7		**Dec 4**: Chapter 7	
Dec 9: Ch7/Review		**Dec 11**: **Final Exam**	